

# Joncryl<sup>®</sup> 1686

<b>General</b>	an acrylic emulsion for use in water-based pre-print overprint varnishes
<b>Key features &amp; benefits</b>	<ul style="list-style-type: none"> <li>■ excellent hot mar resistance</li> <li>■ good rub resistance</li> <li>■ good gloss and transparency</li> </ul>
<b>Chemical nature</b>	a styrene-acrylic emulsion

## Properties

<b>Appearance</b>	opaque emulsion	
<b>Typical characteristics</b> <i>(should not be interpreted as specifications)</i>	non-volatile	30 %
	molecular weight (wt. av.)	> 200,000
	Brookfield viscosity at 25 °C	400 mPa.s
	pH (25 °C)	8.0
	acid value (on solids)	225 mg KOH/g
	density at 25 °C	1.04 g/cm <sup>3</sup>
	minimum film-forming temperature	23 °C
	glass transition temperature Tg (DSC)	44 °C
	freeze/thaw-stable	Yes

## Application

Joncryl<sup>®</sup> 1686 is an emulsion designed for use in water-based pre-print overprint varnishes, providing excellent hot mar resistance without the need for additional crosslinking agents. When mixing Joncryl<sup>®</sup> 1686 with other polymers, care should be taken to determine the most appropriate order of addition.

**Safety**

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

**Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

® = registered trademark, ™ = trademark of the BASF Group, unless otherwise noted

BASF Nederland B.V.  
Resins & Additives  
P.O. Box 390  
8440 AJ Heerenveen, The Netherlands  
Phone +31 513 619 619

[resins@basf.com](mailto:resins@basf.com)  
[www.basf.com/resins](http://www.basf.com/resins)